Declaration and Power of Attorney for Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宜言書

私は、以下に記名された発明者として、ここに下記の通り宜官する:	As a below named inventor, I hereby declare that:
私の作別、鮮便の魔鬼そして国領は、私の氏名の後に記載された着りである。	My residence, post office address, and citizenship are as stated next to my name.
下記の名称の弟明について、労許請求範囲に記載され、且つ特許が求められている発明主題に関して、私は、最初、歴史且つ唯一の是明者である(唯一の氏名が記載されている場合)か、歌いは最初、最先且ったは光明者である(戦数の氏名が記載されている場合)と信じている。	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
	A MAGNETIC HEAD USING A MAGNETO-RESISTIVE EFFECT AND A MANUFACTURING METHOD THEREOF
上記飛暖の明都賞はここに添付されているが、下記の超がチョック されている場合は、この限りでない:	the specification of which is attached hereto unless the following box is checked:
の日に出版され、 この州駅の米国出取将号またはPCT国際出取番号は、	x was filed on August 14, 2002 as United States Application Number or PCT International Application Number
であり、且つ	10/218,247 and was amended on
の日に補正された出版(該当する場合)	August 14, 2002 (if applicable).
私は、上記の著作男によって潜止された、特許請求範囲を含む上記 別知書を検討し、且つ内容を理解していることをここに表明する。 、	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
私は、透邦規則法典第37編規則1.56に定数せれている、特許 生について登長な情報を関示する数据があることを認める。	I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Japanese Language Declaration (日本語宜古書)

私は、ここに、以下に記載した外国での特許出版または免別者征の出職、成いは米国以外の少なくとも一国を指定している米国は典第35編第365条(3)によるPC丁国際出版について、同第119条(a)(d)項スは第365条(3)項に基づいて優党版を主張するとともに、優先限を主張する本出版の出版日よりも前の出版日を有する外国での特許出版または桑昭者征の出版、成いはPC丁国際出版については、いかなる出版も、下記の枠内をチェックすることにより示した。

I hereby claim foreign priority under Title 35, United States Code Section 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365 (a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent, or inventor's certificate, or PCT International application having a filing date before that of the application for which priority is claimed.

such willful false statements may jeopardize the validity of the

application or any patent issued thereon.

			Priority Not Claimed
Prior Foreign Application(s)			伊先臣を払なし
外国での先行出版	,		
P2000-340636	JP	November 8, 2000	
(Number)	(Country)	(Day/Month/Year Filed)	
((())	(項名)	(出取日ノガノ年)	
(Number)	(Country)	(Day/Month/Year Filed)	_
(AV)	(福名)	(出版日/オノ年)	
むは、ここに、 F記のいかなる米国位特別 個法典第35関119条 (c) 項の利益を主想	作出駅についても、その米 Mira。	I hereby claim the benefit under Title 35 Section 119(e) of any United States prolisted below.	
(Application No.)	(Filing Date)		
(出與苦华)	(出版日)	•	·
(Application No.)	(Filing Date)		
(出版課号)	(出版日)		
を主張する。また、本出版の各特許決求の835以第112条第1段に規定された転替37月では、12条第1段に規定された転替3月では、12条第1日出版に関係されては、12条の1日の1日の1日の1日の1日の1日の1日の1日の1日の1日の1日の1日の1日の	で、先行する米国出版文は おいては、その先行出国の 版日との週の期間中に入手 1.56に定義をわたな計	PCT International application designating the below and, insofar as the subject matter of this application is not disclosed in the prior International application in the manner paragraph of Title 35, United States acknowledge the duty to disclose information patentability as defined in Title 37, Code of Section 1.56 which became available between the prior application and the national or Podate of this application.	f each of the claims of r United States or PCT provided by the first Code Section 112, I on which is material to of Federal Regulations, ween the filing date of
PCT/JP01/09734	November 7, 2001	Pending	
(Application No.)	(Filing Date)	(Status Patented, Pending,	Abandoned)
(出風器子)	(出旗出)	(項記:特許許可、係制	
(Application No.)	(Filing Date)	(Status Patented, Pending,	, Abandoned)
(出風器子)	(出版日)	(項記:特許許可、領導	(中、放果)
私は、ここに 美味された 私自身の知識に対 立つ情報と信仰ることに基づら連述が、変どを を質すし、 さらに、 放露に重偽の理念をは 第18項第1001条に 直づき、関金に計 により気調ぎれ、またそのような意意による には代けられるといかなる行き することを理解した上で理述が行われたこ	ちであるとほじられること を行った場合は、米国協力 お対策、若しくはその関係 およるのでなかない。本田版が生 5.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	I hereby declare that all statements mad knowledge are true and that all statements and belief are believed to be true; and furthe were made with the knowledge that willfu the like so made are punishable by fine or i under Section 1001 of Title 18 of the Unite	made on information or that these statements if false statements and imprisonment, or both, d States Code and that

Japanese Language Declaration (日本語宜書書)

歩任状: 仏は本出版を審査する手段を行い、且つ米国物計度域庁と の全ての業務を選行するために、記名をれた規明者として。下記の弁 建士及び/または弁理士を任命する。(氏名及び登録者号を記載する POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number). All practitioners associated with Customer No. All practitioners associated with Customer No. 26263, 26263, with full power of substitution and with full power of substitution and revocation revocation. Send Correspondence to: 書類选付欠 David R. Metzger David R. Metzger SONNENSCHEIN NATH & ROSENTHAL SONNENSCHEIN NATH & ROSENTHAL P.O. Box 061080 P.O. Box 061080 Sears Tower Sears Tower Wacker Drive Station Wacker Drive Station Chicago, Illinois 60606-1080 Chicago, Illinois 60606-1080 Direct Telephone Calls to: 直通世話連絡先:(氏名及び電話書号) (name and telephone number) David R. Metzger 312-876-2578 David R. Metzger 312-876-2578 (Facsimile) 312-876-7934 (Facsimile) 312-876-7934

昭一または第一発明者氏名		Full name of sole or first inventor AKIO FURUKAWA		
発収者の署名	日付	Inventor's signature Date SEP 3, 2002		
住 质		Residence (Miyagi, Japan		
以籍		Citizenship Japan		
郵便の発先		Post Office Address c/o Sony Corporation 6-7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141-0001, Japan		

第二共 発明者がいる場合、その氏名		Full name of second joint inventor, if any YOSHIHIKO KAKIHARA			
第二共同発明者の署名	日付	Second inventor's signature Date			
位 频		Residence Kanagawa, Japan			
以報		Citizenship Japan			
都便の宛先		Post Office Address c/o Sony Corporation 6-7-35, Kitishinagawa-ku, 6-chome Shinagawa-ku, Tokyo 141-0001, Japan			

(第三以下の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)

•

		Full name of third joint inventor, if any	
免収者の署名	日付	Inventor's signature Date	
位 所		Residence	
15. 括		Citizenship	
郵便の発先		Post Office Address	
		Full name of fourth joint inventor, if any	
発明者の署名	日付	Inventor's signature Date	
仕 柄		Residence	
U SE			
郵便の発先	·		
		Full name of fifth joint inventor, if any	
発明者の著名	日付	Inventor's signature Date	
竹類		Residence	
工程		Citizenship	
都便の宛先		Post Office Address	
		Full name of sixth joint inventor, if any	
		Inventor's signature Date	
聴明者の著名		Residence	
山 麻		Citizenship	**
X FR			
節便の宛先			



JULY 15, 2003

PTAS

SONNENSCHEIN NATH & ROSENTHAL DAVID R. METZGER PO BOX #061080 WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080 Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



102380926A

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/03/2003

REEL/FRAME: 013799/0093

NUMBER OF PAGES: 3

BRIEF:

CORRECTIVE ASSIGNMENT TO CORRECT THE SECOND ASSIGNORS NAME.

DOCUMENT PREVIOUSLY RECORDED AT REEL 013417 FRAME 0083.

ASSIGNOR:

FURUKAWA, AKIO

DOC DATE: 09/03/2002

ASSIGNOR:

KAKIHARA, YOSHIHIKO

DOC DATE: 09/10/2002

ASSIGNEE:

SONY CORPORATION
7-35 KITASHINAGAWA, 6-CHOME
SHINAGAWA-KU
TOKYO, JAPAN

SERIAL NUMBER: 10218247

PATENT NUMBER:

FILING DATE: 08/14/2002

ISSUE DATE:

DIARIED 7/22/03 EDUNCT

BY:

BYM CC,

DEGE | WE | JUL 2 2 2003 | By 013799/0093 PAGE 2

PAULA MCCRAY, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

03-05	-2003
	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
To the Honorable Commissioner of the	ached original documents or copy
	2. Name and address of receiving party(ies): Name: SONY CORPORATION Internal Address: 7-35 Kitashinagawa, 6-chome Shinagawa-Ku, Tokyo Japan Street Address:
3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Corrective Assignment (See Attach.) Execution Date:	CityState:Zip: Additional Name(s) & Address(es) attached ☐ Yes ☒ No
 4. Application (number(s) or patent number(s): If this document is being filed together with a new serial No. 10/218,247 filed August 14, 2002 Attorney Docket No. 09792486-0118 Additional numbers attached? Yes No 	application, the execution date of the application is:_ B: Patent No.(s)
5. Name and address of party to whom correspondence concerning document should be mailed: SONNENSCHEIN NATH & ROSENTHAL P.O. Box #061080 Wacker Drive Station Sears Tower Chicago, IL 60606-1080 Customer ID No. 26263	6. Total number of applications and patents involved 1 7. Total Fee (37 CFR 3.41 \$ 40.00 ☐ Enclosed ☐ Authorized to be charged to deposit account any additional fees 8. Deposit Account Number: 19-3140 (Attach duplicate copy of this page if paying by deposit account)
DO NOT USE THIS SPACE 9. Statement and signature: To the best of my knowledge and belief, the forego	ing information is true and correct and any attached
copy is a true copy of the original document. David R. Metzger	nature February 25, 2003 Date Total number of pages 2
Box A	sheet information to: Patents and Trademarks ssignments on, D.C. 20231+

03/04/2003 TDIAZ1

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PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applio	eant:	Furukawa et al.)	New Attorney Docket No:
)	09792486-0118
Serial	No:	10/218,247)	
)	Group Art Unit No: 2652
Filed:		August 14, 2002)	
)	
Title:	A MAGNET	IC HEAD USING)	
	MAGNETO-	RESISTIVE EFFECT AND)	Examiner: Not yet assigned
	A MANUFA	CTURING METHOD)	
	THEREOF)	

Commissioner of Patents and Trademarks Assignment Division, Box Assignments CG-4, 1213 Jefferson Davis Hwy, Suite 320 Washington, D.C. 20231

PETITION FOR CORRECTED NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

Dear Sir:

This is a corrected Assignment to correct the name of the second assignor on the Recordation Form, filed on October 15, 2002, re-recorded on reel/frame: 013412/0083. Assignor hereby confirms the assignment of the entire interest.

Applicant inadvertently misspelled the name of the second assignor as "YOSHIKIKO KKAKIHARA." The correct spelling of the second assignor's name is "YOSHIHIKO KAKIHARA."

This typographical error was made on the part of the applicant, and because of such, enclosed is the filing fee of \$40.00 along with the corrected Recordation Form that is required in connection with this correction request.

In view of the foregoing remarks and supporting documentation, correction of the Notice of Recordation of Assignment is requested.

Respectfully submitted,

David R. Metzger, Reg. 32,919

SONNENSCHEIN NATH & ROSENTHAL P.O. Box #061080 Wacker Drive Station, Sears Tower Chicago, IL 60606-1080 (312)876-8000 I hereby certify that this document and any being referred to as attached or enclosed is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D.C. 20231 on

2-25-3 Anna M. Franz



FEBRUARY 10, 2003

PTAS

SONNENSCHEIN NATH & ROSENTHAL DAVID R. METZGER POST OFFICE BOX 061080 WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080

Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



102262066A

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RECORDATION DATE: 10/21/2002

REEL/FRAME: 013412/0083

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FURUKAWA, AKIO

DOC DATE: 09/03/2002

ASSIGNOR:

KKAKIHARA, YOSHIHIKO

DOC DATE: 09/10/2002

ASSIGNEE:

SONY CORPORATION 6-7-35, KITASHINAGAWA 6-CHOME SHINAGAWA-KU TOKYO 141-0001, JAPAN

SERIAL NUMBER: 10218247

PATENT NUMBER:

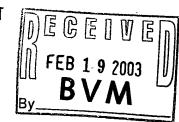
FILING DATE: 08/14/2002

ISSUE DATE:

PAULA MCCRAY, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS RECEIVED 211963 DOCKET

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BY: BYM CNOT



Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)	RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
To the Honorable Commissioner of Pa	atents and Trademarks:	Please record the attached	original documents or copy thereof.
1. Name of conveying party(ies): Akio FURUKAWA Yoshihiko kKAKIHARA 2. Name and address of receiv		DRATION	
Additional name(s) of conveying party(ies) atta	tached? Yes 🛭 No	Shinagawa-ku,	nagawa 6-chome Tokyo 141-0001
3. Nature of conveyance:	!	Japan	
	☐ Merger ☐ Change of Name		
Execution Date: Sept 3, 2002 and Se	ept 10, 2002	Additional name(s) & add	iress(es) attached? Yes No
4. Application number(s) or paten	nt number(s):		
If this document is being filed toge	gether with a new appl	lication, the execution da	te of the application is:
A. Patent Application No.(s)		B. Patent No.(s)	
10/218,247 filed Augsut 14	4, 2002		
Ad	lditional numbers at	ttached 🔲 Yes 🔯 No	
 Name and address of party to w correspondence concerning doc mailed: 		6. Total number of ap involved: <u>1</u>	pplications and patents
David R. Metzger		7. Total fee (37 CFR	. 3.41)\$ <u>40.00</u>
Sonnenschein Nath & Rosent Post Office Box 061080	thal	⊠ Enclosed ☐ Authorized to b	be charged to deposit account
Wacker Drive Station Sears Tower		8. Deposit account no 19-3140	
Chicago, Illinois 60606-1080 (312) 876-8000			stir is resident to democis account)
	DO NOT USE		this page if paying by deposit account)
9. Statement and signature.			
To the best of my knowledge an copy is a true copy of the origin		ing information is true	and correct and any attached
<u>David R. Metzger</u> Name of Person Signing Total number of	Signa of pages including cover	Atture Octoor	tober 15, 2002 Date

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

Docket No. 09792486-0118

Form PTO-1595	Docket No. 09792486-0118
Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002, 102262)	EET U.S. DEPARTMENT OF COMMERCE
To the Honorable Commissioner of Patents and Trademark	cs: Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): Akio FURUKAWA Yoshihiko kKAKIHARA	2. Name and address of receiving and (:)
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No 3. Nature of conveyance:	6-7-35, Kitashinagawa 6-chome Shinagawa-ku, Tokyo 141-0001 Japan
Execution Date: Sept 3, 2002 and Sept 10. 2002	Additional name(s) & address(es) attached? Yes No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new ap	plication, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
10/218,247 filed Augsut 14, 2002	SEC
ļ	CT
Additional numbers a	SECTION SECTION SECTION
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
David R. Metzger Sonnenschein Nath & Rosenthal Post Office Box 061080 Wacker Drive Station	7. Total fee (37 CFR 3.41)\$40.00 Enclosed Authorized to be charged to deposit account
Sears Tower Chicago, Illinois 60606-1080 (312) 876-8000	8. Deposit account number: 19-3140
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9. Statement and signature.	
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David R. Metzger Name of Person Signing Total number of pages including a service.	October 15, 2002 Date
Total number of pages including cover s Mail documents to be recorded with re	sheet, attachments, and documents: 3

10/25/2002 DBYRNE 00000207 10218247 Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 2023 1

D1 FC:8021

40.00 OP

A S S I G N M E N T
FOR a valuable consideration, the sufficiency and receipt of which is hereby acknowledged, the undersigned

AKIO FURUKAWA AND YOSHIHIKO KAKIHARA

whose mailing address(es) is/are:
c/o Sony Corporation, 6-7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo, Japan 141-0001 Japan
hereby sell(s), assign(s) and transfer(s) unto SONY CORPORATION, a corporation of, having its principal office at 6-7-35, Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141-0001, Japan,
the whole right, title and interest in and to a certain invention or improvement in
"A MAGNETIC HEAD USING MAGNETO-RESISTIVE EFFECT AND A MANUFACTURING METHOD THEREOF"
disclosed in an application for Letters Patent of the United States, prepared by the firm of Sonnenschein, Nath & Rosenthal of Chicago, Illinois, and executed of even date herewith, said application being identified in the office records of said firm as Case No09792486-0118 - U.S. Serial No10/218,247, and in and to the United States Letters Patent therefor, when issued, together with all improvements thereon and betterments thereof, all divisions, continuations and reissues thereof and substitutions of or for said application, and all rights and privileges under the Letters Patent that may be granted therefor, including the right to claim the benefit of an earlier filing date for the same invention in a foreign country.
I/We hereby authorize and request the Commissioner of Patents to issue the Letters Patent that may be granted for said invention or improvements to said <u>Sony Corporation</u> .
For the same consideration, I/we hereby agree that I/we will promptly communicate to the aforesaid assignee or its assigns full and complete information concerning said improvements or betterments of the inventions disclosed in said application, and will cooperate at any time upon request of said assignee or its assigns, at its expense, in the procurement of patent protection to cover the inventions herein assigned and to be assigned, including the execution of new, divisional, continuing and reissue applications; will make all rightful oaths, will testify in any proceedings in the United States Patent Office or in the Courts, and generally will do everything lawfully possible to aid said assignee, its successors, assigns and nominees to obtain, enjoy and enforce proper patent protection for the inventions embraced within the terms of this document.
DATE: SEP. 3, 2002 Akio Furukawa
DATE: SEP.10,2002 持原、芳苏, Yoshibiko Kakibara